

NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMM	MMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNN		NNN	MMMMMM	MMMMMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNNNNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL
NNN	NNN	NNN	MMM	MMM	LLLLLLLLLLLLLLLL

_S

Ps

NP

NP

SG

SO

NP

PA

_L

[illegible]

```
0001 0 XTITLE 'NML Disconnect parameter module'
0002 0 MODULE NML$DISCONNECT (
0003 0     LANGUAGE (BLISS32),
0004 0     ADDRESSING_MODE (NONEXTERNAL=GENERAL),
0005 0     ADDRESSING_MODE (EXTERNAL=GENERAL),
0006 0     IDENT = 'V04-000'
0007 0 ) =
0008 1 BEGIN
0009 1
0010 1 *****
0011 1 *
0012 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0027 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0028 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0029 1 *
0030 1 *****
0031 1
0032 1
0033 1
0034 1 ++
0035 1 FACILITY: DECnet-VAX V2.0 Network Management Listener
0036 1
0037 1 ABSTRACT:
0038 1
0039 1     These routines process all NCP DISCONNECT commands.
0040 1
0041 1 ENVIRONMENT: VAX/VMS Operating System
0042 1
0043 1 AUTHOR: Kathy Perko
0044 1
0045 1 CREATION DATE: 6-Sept-1981
0046 1
0047 1 MODIFIED BY:
0048 1
0049 1     V03-002 MKP0004      Kathy Perko      1-March-1983
0050 1     Fix DISC LINKS so it returns an EOF message if no
0051 1     links were disconnected.
0052 1
0053 1     V03-001 MKP0003      Kathy Perko      7-May-1982
0054 1     Add double search key to DISCONNECT KNOWN LINKS WITH
0055 1     NODE <node name>.
0056 1
0057 1     V02-003 MKP0002      Kathy Perko      25-Oct-1981
```

:	58	0058	1	:	
:	59	0059	1	:	
:	60	0060	1	:	
:	61	0061	1	:	
:	62	0062	1	:	
:	63	0063	1	:	
:	64	0064	1	:	
:	65	0065	1	:	
:	66	0066	1	:	--
:	67	0067	1	:	

Change single link disconnect so no node name
is required in the NICE command.

V02-002 MKP0001 Kathy Perko 18-Sept-1981
Fix NML\$DISCKNOWN so that if a link goes away
between the read and the disconnect, no error
is returned to NCP.

NML\$DISCONNECT
V04-000

NML Disconnect parameter module
Declarations

C 8
16-Sep-1984 00:14:10
14-Sep-1984 12:50:08

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1 Page 3
(2)

```

: 69      0068 1 %SBTTL 'Declarations'
: 70      0069 1
: 71      0070 1
: 72      0071 1  TABLE OF CONTENTS:
: 73      0072 1
: 74      0073 1
: 75      0074 1  FORWARD ROUTINE
: 76      0075 1      NML$DISCKNOWN      : NOVALUE,
: 77      0076 1      NML GETLINKLIST,
: 78      0077 1      NML$DISCONNECT    : NOVALUE;
: 79      0078 1
: 80      0079 1
: 81      0080 1  INCLUDE FILES:
: 82      0081 1
: 83      0082 1
: 84      0083 1  LIBRARY 'LIB$:NMLLIB.L32';
: 85      0084 1  LIBRARY 'SHRLIB$:NMLIBRY.L32';
: 86      0085 1  LIBRARY 'SHRLIB$:NET.L32';
: 87      0086 1  LIBRARY 'SYSSLIBRARY:STARLET.L32';
: 88      0087 1
: 89      0088 1
: 90      0089 1  EXTERNAL REFERENCES:
: 91      0090 1
: 92      0091 1
: 93      0092 1  $NML_EXTDEF;
: 94      0093 1
: 95      0094 1  EXTERNAL ROUTINE
: 96      0095 1      NML$BLDP2,
: 97      0096 1      NML$BLD REPLY,
: 98      0097 1      NML$GETEXEADR,
: 99      0098 1      NML$NETQIO,
100      0099 1      NML$SEND,
101      0100 1      NML$ERROR_1;
102      0101 1
```

NML\$DISCONNECT
V04-000

NML Disconnect parameter module
Declarations

D 8
16-Sep-1984 00:14:10
14-Sep-1984 12:50:08

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1 Page 4 (3)

```

: 104      0102 1
: 105      0103 1 OWN
: 106      0104 1
: 107      0105 1      NML$T_P2BUFFER : VECTOR [NML$K_P2BUFLN, BYTE],
: 108      0106 1      NML$AB_ENTITY_BUF : BBLOCK [20];
: 109      0107 1 BIND
: 110      0108 1
: 111      0109 1      NML$Q_P2BFDSC = UPLIT (NML$K_P2BUFLN, NML$T_P2BUFFER) : DESCRIPTOR;
: 112      0110 1
```

```
114 0111 1 %SBTTL 'NML$DISCKNOWN Disconnect known Links'
115 0112 1 GLOBAL ROUTINE NML$DISCKNOWN (ENTITY, NODE_PST, NODE_LEN, NODE_ADR) : NOVALUE =
116 0113 1
117 0114 1 !++
118 0115 1 FUNCTIONAL DESCRIPTION:
119 0116 1
120 0117 1 This routine disconnects all links with all nodes or all links
121 0118 1 with a specified node.
122 0119 1
123 0120 1 FORMAT PARAMETERS:
124 0121 1 ENTITY Internal NML entity code (NML$C_LINKS)
125 0122 1 NODE_PST Parameter Semantic Table (PST) entry of node
126 0123 1 (name or address) from which to disconnect links.
127 0124 1 NODE_LEN Length of disconnect node ID.
128 0125 1 NODE_ADR Address of disconnect node ID.
129 0126 1 --
130 0127 1
131 0128 2 BEGIN
132 0129 2
133 0130 2 LOCAL
134 0131 2 NFB : REF BBLOCK,
135 0132 2 P2DSC : DESCRIPTOR,
136 0133 2 STATUS,
137 0134 2 PTR,
138 0135 2 STRIFLG,
139 0136 2 LINK_CNT, ! Count of links returned by NETACP in
140 0137 2 ! P4 buffer.
141 0138 2 STRDSC : DESCRIPTOR, ! Descriptor of link for NICE response msg.
142 0139 2 MSGSIZE; ! Length of response message.
143 0140 2
144 0141 2 !
145 0142 2 NFB to disconnect a link.
146 0143 2
147 P 0144 2 $NFB DSC (DISC_LINK NFB DSC, DELETE, , LLI
148 P 0145 2 ,LCN, ! Search key 1 = Link number, oper1 = eql
149 P 0146 2 ,NFB$ WILDCARD, ! Search key 2 = wildcard, oper2 = neq
150 0147 2 );
151 0148 2
152 0149 2 OWN
153 0150 2
154 0151 2 NMLPID,
155 0152 2 GETLIST : BBLOCK [12] ! $GETJPI List to get NML's PID.
156 0153 2 INITIAL ( WORD (4, ! Buffer length
157 0154 2 JPI$ PID), ! Request PID
158 0155 2 LONG (NMLPID, ! Address to receive PID
159 0156 2 0)), ! Don't need length.
160 0157 2
161 0158 2
162 0159 2 !
163 0160 2 Get PID for NML. If NML is not running in the local node, it is
164 0161 2 talking to NCP via a logical link. Therefore, don't disconnect
165 0162 2 that link. Use the PID to tell which link is NML's link to NCP.
166 P 0163 2 STATUS = $GETJPI (ITMLST = GETLIST,
167 0164 2 IOSB = IOSB);
168 0165 2 IF NOT .STATUS OR
169 0166 2 NOT .IOSB [IOS$W_STATUS] THEN
170 0167 2 ! Signal an error.
```



```
171 0168 2      NML$ERROR_1 (NML$C_STS_MPR);
172 0169 2
173 0170 2
174 0171 2      Set up the link ID descriptor for the NICE response message.
175 0172 2      The link ID consists of a byte of 0 followed by a word of the
176 0173 2      link number.
177 0174 2
178 0175 2      STRDSC [DSC$W_LENGTH] = 3;
179 0176 2      STRDSC [DSC$A_POINTER] = NML$AB_ENTITY_BUF;
180 0177 2      NML$AB_ENTITY_BUF<0,8> = 0;
181 0178 2      STRTFLG = FALSE;
182 0179 2
183 0180 2      Get a list of links to disconnect from NETACP.
184 0181 2
185 0182 2      WHILE NML_GETLINKLIST (.STRTFLG, NML$GQ_QIOBFDSC, LINK CNT, .NMLPID,
186 0183 2          .NODE_PST, .NODE_LEN, .NODE_ADR) DO
187 0184 2          BEGIN
188 0185 2          STRTFLG = TRUE;
189 0186 2          PTR = NML$GQ_QIOBFDSC [DSC$A_POINTER];
190 0187 2          WHILE (LINK CNT = .LINK_CNT - 1) GEQ 0 DO
191 0188 2              BEGIN
192 0189 2              NML$BLDP2 (0, ..PTR, -1, 0, NML$Q_P2BFDSC, P2DSC);
193 0190 2              Tell NETACP to disconnect the link.
194 0191 2              STATUS = NML$NETQIO ( DISC_LINK_NFBFDC, P2DSC, 0, 0);
195 0192 2              Build response message for disconnected link.
196 0193 2              IF .STATUS THEN
197 0194 2                  BEGIN
198 0195 2                  NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
199 0196 2                  NML$AB_MSGBLOCK [MSB$B_CODE] = NML$ STS_SUC;
200 0197 2                  NML$GL_PRS_FLGS [NML$V_PRS_ENTITY_FOUND] = TRUE;
201 0198 2                  END;
202 0199 2                  CH$MOVE (2, .PTR, .STRDSC [DSC$A_POINTER] + 1);
203 0200 2                  If the link went away before it could be disconnected
204 0201 2                  don't build a response message for it.
205 0202 2                  IF .STATUS NEQ NML$_STS_CMP THEN
206 0203 2                      BEGIN
207 0204 2                      NML$AB_MSGBLOCK [MSB$V_ENTD_FLD] = 1;
208 0205 2                      NML$AB_MSGBLOCK [MSB$A_ENTITY] = STRDSC;
209 0206 2                      NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
210 0207 2                      NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
211 0208 2                      END;
212 0209 2                      Advance pointer to next link in the buffer.
213 0210 2                      PTR = .PTR + 4;
214 0211 2                      END;
215 0212 2          END;
216 0213 2      END;
217 0214 2      If no links were disconnected, return an error message.
218 0215 2
219 0216 2      IF NOT .NML$GL_PRS_FLGS [NML$V_PRS_ENTITY_FOUND] THEN
220 0217 2
221 0218 2
222 0219 2
223 0220 2
224 0221 2
225 0222 2
226 0223 2
227 0224 2
```


NML\$DISCONNECT
V04-000

NML Disconnect parameter module
NML\$DISCKNOWN Disconnect known links

G 8
16-Sep-1984 00:14:10
14-Sep-1984 12:50:08

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLDISC.B32;1

Page 7
(4)

```
.. 228      0225      3      BEGIN
.. 229      0226      3      NML$AB_MSGBLOCK [MSB$S_FLAGS] = MSB$M_DET_FLD;      ! Detail flag
.. 230      0227      3      NML$AB_MSGBLOCK [MSB$S_CODE] = NMASC_STS_CMP;      ! Missing component status
.. 231      0228      3      NML$AB_MSGBLOCK [MSB$S_DETAIL] = NMASC_SENT_LNK;      ! Links
.. 232      0229      3      NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
.. 233      0230      3      NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
.. 234      0231      2      END;
.. 235      0232      1      END;
```

! of NML\$DISC_KNOWN_LINKS

.TITLE NML\$DISCONNECT NML Disconnect parameter module
.IDENT \V04-000\

.PSECT \$PLITS\$,NOWRT,NOEXE,2

```
00000068 00000 P.AAA: .LONG 104
00000000 00004 .ADDRESS NML$T_P2BUFFER
00000014 00008 P.AAB: .LONG 20
00000000 0000C .ADDRESS U.1
```

.PSECT \$OWNS\$,NOEXE,2

```
00000 NML$T_P2BUFFER:
00068 NML$AB_ENTITY_BUF:
21 0007C : NFB
00 0007D U.1: .BYTE 33
08 0007E .BYTE 0
00 0007F .BYTE 8
08010012 00080 .BYTE 0
00000001 00084 .LONG 134283282
00 00088 .LONG 1
00 00089 .BYTE 0
0000 0008A .BYTE 0
00000000 0008C .WORD 0
00090 NMLPID: .LONG 0
0319 0004 00094 GETLIST: .BLKB 4, 793
00000000 00098 .ADDRESS NMLPID
00000000 0009C .WORD 0
000A0 IOSB: .LONG 0
000A0 .BLKB 8
```

NML\$Q_P2BFDSC=
U.2=

```
P.AAA
P.AAB
.EXTRN NML$GB_EVTSRCTYP
.EXTRN NML$GQ_EVTSRCDS
.EXTRN NML$GW_EVTCLASS
.EXTRN NML$GB_EVTMSKTYP
.EXTRN NML$GQ_EVTMSKDS
.EXTRN NML$GW_EVTSNKADR
.EXTRN NML$GW_ACP_CHAN
.EXTRN NML$GL_LOGMASK, NML$GQ_ENTSTRDSC
.EXTRN NML$AB_QIOBUFFER
.EXTRN NML$GQ_QIOBFDSC
.EXTRN NML$AB_EXEBUFFER
.EXTRN NML$GL_EXEDATPTR
```

```
.EXTRN NML$GQ_EXEDATDSC
.EXTRN NML$GQ_EXEBFDSC
.EXTRN NML$AB_RCVBUFFER
.EXTRN NML$GQ_RCVBFDSC
.EXTRN NML$AB_SNDBUFFER
.EXTRN NML$GQ_SNDBFDSC
.EXTRN NML$GL_RCVDATLEN
.EXTRN NML$AB_CPTABLE, NML$AB_MSGBLOCK
.EXTRN NML$AB_ENTITY_ID
.EXTRN NML$AB_QUALIFIER_ID
.EXTRN NML$AB_ENTITYDATA
.EXTRN NML$AB_NML_NMV, NML$AB_PRMSEM
.EXTRN NML$AB_RECBUF, NML$AL_ENTINF TAB
.EXTRN NML$AL_PERMINF TAB
.EXTRN NML$AW_PRM_DES, NML$GB_CMD_VER
.EXTRN NML$GB_ENTITY_CODE
.EXTRN NML$GB_ENTITY_FORMAT
.EXTRN NML$GL_QUALIFIER_PST
.EXTRN NML$GB_QUALIFIER_FORMAT
.EXTRN NML$GB_FUNCTION
.EXTRN NML$GB_INFO, NML$GB_OPTIONS
.EXTRN NML$GL_PRMCODE, NML$GL_PRS_FLGS
.EXTRN NML$GL_NML_ENTITY
.EXTRN NML$GQ_NETNAMDSC
.EXTRN NML$GQ_RECBFDSC
.EXTRN NML$GW_PRMDESCNT
.EXTRN NML$BLDP2, NML$BLD_REPLY
.EXTRN NML$GETEXEADR, NML$NETQIO
.EXTRN NML$SEND, NML$ERROR_1
.EXTRN SYSS$GETJPI

.PSECT $CODE$,NOWRT,2

.ENTRY NML$DISCKNOWN, Save R2,R3,R4,R5,R6,R7,R8,- 0112
      R9,R10,R11
      MOVAB NML$SEND, R11
      MOVAB NML$AB_SNDBUFFER, R10
      MOVAB NML$BLD_REPLY, R9
      MOVAB NML$GL_PRS_FLGS, R8
      IOB, R7
      MOVAB NML$AB_MSGBLOCK, R6
      SUBL2 #24, SP
      CLRQ -(SP)
      PUSHL R7
      PUSHAB GETLIST
      CLRQ -(SP)
      CLRL -(SP)
      CALLS #7, SYSS$GETJPI
      MOVL R0, STATUS
      BLBC STATUS, 1$
      BLBS IOB, 2$
      MNEGL #5, -(SP)
      CALLS #1, NML$ERROR_1
      MOVW #3, STRDSC
      MOVAB NML$AB_ENTITY_BUF, STRDSC+4
      CLRB NML$AB_ENTITY_BUF
      CLRL STRFLG
      : 0164
      : 0165
      : 0166
      : 0168
      : 0175
      : 0176
      : 0177
      : 0178
```

		OFFC 00000	
5B	00000000G	00	9E 00002
5A	00000000G	00	9E 00009
59	00000000G	00	9E 00010
58	00000000G	00	9E 00017
57	00000000G	00	9E 0001E
56	00000000G	00	9E 00025
5E		18	C2 0002C
		7E	7C 0002F
		57	DD 00031
		F4	A7 9F 00033
		7E	7C 00036
		7E	D4 00038
00000000G	00	07	FB 0003A
	55	50	D0 00041
	03	55	E9 00044
	0A	67	E8 00047
	7E	05	CE 0004A 1\$:
00000000G	00	01	FB 0004D
	0B	03	80 00054 2\$:
	0C	AE	
		C8	A7 9E 00058
		C8	A7 94 0005D
		54	D4 00060

52	OC	AE	DO	00062	MOVL	STRDSC+4, R2	0203	
7E	OC	AC	7D	00066	3\$:	MOVQ	NODE_LEN, -(SP)	0183
	08	AC	DD	0006A		PUSHL	NODE_PST	
	F0	A7	DD	0006D		PUSHL	NMLPTD	0182
	10	AE	9F	00070		PUSHAB	LINK_CNT	
00000000G		00	9F	00073		PUSHAB	NML\$GQ_QIOBFDSC	
		54	DD	00079		PUSHL	STRTFLG	
00000000V	00	07	FB	0007B		CALLS	#7, NML_GETLINKLIST	
	72	50	E9	00082		BLBC	R0, 7\$	
	54	01	DO	00085		MOVL	#1, STRTFLG	0185
53	00000000G	00	DO	00088		MOVL	NML\$GQ_QIOBFDSC+4, PTR	0186
		6E	D7	0008F	4\$:	DECL	LINK_CNT	0187
		D3	19	00091		BLSS	3\$	
	10	AE	9F	00093		PUSHAB	P2DSC	0189
000000000		00	9F	00096		PUSHAB	NML\$Q_P2BFDSC	
		7E	D4	0009C		CLRL	-(SP)	
7E		01	CE	0009E		MNEGL	#1, -(SP)	
		63	DD	000A1		PUSHL	(PTR)	
00000000G	00	7E	D4	000A3		CLRL	-(SP)	
		06	FB	000A5		CALLS	#6, NML\$BLDP2	
		7E	7C	000AC		CLRQ	-(SP)	0193
	18	AE	9F	000AE		PUSHAB	P2DSC	
00000000G		00	9F	000B1		PUSHAB	U.2	
		04	FB	000B7		CALLS	#4, NML\$NETQIO	
		50	DO	000BE		MOVL	R0, STATUS	
		55	E9	000C1		BLBC	STATUS, 5\$	0197
		66	D4	000C4		CLRL	NML\$AB_MSGBLOCK	0199
04	A6	01	90	000C6		MOVB	#1, NML\$AB_MSGBLOCK+4	0200
		08	88	000CA		BISB2	#8, NML\$GL_PRS_FLGS	0201
01	A2	63	B0	000CD	5\$:	MOVW	(PTR), 1(R2)	0203
FFFFFFFF0	8F	55	D1	000D1		CMPL	STATUS, #-16	0208
		18	13	000D8		BEQL	6\$	
		10	88	000DA		BISB2	#16, NML\$AB_MSGBLOCK	0210
14	A6	08	AE	9E	000DD	MOVAB	STRDSC, NML\$AB_MSGBLOCK+20	0211
		04	AE	9F	000E2	PUSHAB	MSGSIZE	0212
		56	DD	000E5		PUSHL	R6	
		02	FB	000E7		CALLS	#2, NML\$BLD_REPLY	
69		04	AE	DD	000EA	PUSHL	MSGSIZE	0213
		5A	DD	000ED		PUSHL	R10	
		02	FB	000EF		CALLS	#2, NML\$SEND	
68		04	CO	000F2	6\$:	ADDL2	#4, PTR	0218
		98	11	000F5		BRB	4\$	0187
18		03	E0	000F7	7\$:	BBS	#3, NML\$GL_PRS_FLGS, 8\$	0224
		02	DO	000FB		MOVL	#2, NML\$AB_MSGBLOCK	0226
		08	8E	000FE		MNEGB	#8, NML\$AB_MSGBLOCK+4	0227
04	A6	07	B0	00102		MOVW	#7, NML\$AB_MSGBLOCK+8	0228
08	A6	04	AE	9F	00106	PUSHAB	MSGSIZE	0229
		56	DD	00109		PUSHL	R6	
		02	FB	0010B		CALLS	#2, NML\$BLD_REPLY	
69		04	AE	DD	0010E	PUSHL	MSGSIZE	0230
		5A	DD	00111		PUSHL	R10	
		02	FB	00113		CALLS	#2, NML\$SEND	
68		04	00116	8\$:	RET			0232

; Routine Size: 279 bytes, Routine Base: \$CODE\$ + 0000


```

237 0233 1 %SBTTL 'NML_GETLINKLIST Get a list of links to disconnect'
238 0234 1 ROUTINE NML_GETLINKLIST ( GET_STARTED, LISDSC, ENTRY_COUNT, NMLPID,
239 0235 1                                     NODE_PST, NODE_LEN, NODE_ADR) =
240 0236 1
241 0237 1 ++
242 0238 1 FUNCTIONAL DESCRIPTION:
243 0239 1 This routine gets a bufferfull of currently active logical links
244 0240 1 from NETACP. This bufferfull will be either known links or known
245 0241 1 links on a specified node. The routine can be iteratively called
246 0242 1 to get more bufferfulls, until all links have been processed.
247 0243 1
248 0244 1 INPUTS:
249 0245 1 GET_STARTED If false, this is the first call, so build
250 0246 1 a new P2 buffer and start at the beginning
251 0247 1 of the ACPs database.
252 0248 1 LISDSC Address at which to return descriptor address
253 0249 1 of the P4 buffer (which is full of links and
254 0250 1 their PIDs.
255 0251 1 ENTRY_COUNT Count of links in the P4 buffer.
256 0252 1 NMLPID PID of NML process. This link must be disconnected
257 0253 1 last.
258 0254 1 NODE_PST Parameter Semantic Table (PST) entry of node
259 0255 1 (name or address) from which to disconnect links.
260 0256 1 NODE_LEN Length of disconnect node ID.
261 0257 1 NODE_ADR Address of disconnect node ID.
262 0258 1
263 0259 1 IMPLICIT INPUTS:
264 0260 1 NML$GL_PRS_FLGS [NML$V_PRS_QUALIFIER] Set if links on a specified
265 0261 1 node are to be returned.
266 0262 1 NML$GO_ENTSTRDSC Descriptor for node name or number.
267 0263 1
268 0264 1 --
269 0265 1
270 0266 2 BEGIN
271 0267 2
272 0268 2 $NFB$DSC ( GET_KNOWN_LINKS, SHOW, NFB$M_MULT OR NFB$M_ERRUPD, LLI
273 0269 2 ,NFB$C_WILDCARD, ! Search key 1 = wildcard, oper1 = eql
274 0270 2 ,PID, NFB$C_OP_NEQ ! Search key 2 = NML's PID, oper2 = neq
275 0271 2 ,LLN ! Return link number
276 0272 2 );
277 0273 2
278 0274 2 MAP
279 0275 2 NODE_PST: REF BBLOCK,
280 0276 2 GET_KNOWN_LINKS : DESCRIPTOR;
281 0277 2
282 0278 2 OWN
283 0279 2 P2_BUFFER : BBLOCK [NML$K_P2BUFLN],
284 0280 2 P2DSC : DESCRIPTOR;
285 0281 2
286 0282 2 BIND
287 0283 2 P2_BUF_DSC = UPLIT ( NML$K_P2BUFLN, P2_BUFFER) : DESCRIPTOR;
288 0284 2
289 0285 2 LOCAL
290 0286 2 NFB : REF BBLOCK,
291 0287 2 SEARCH_KEY_LEN,
292 0288 2 SEARCH_KEY_VAL,
293 0289 2 P3,

```

0290 STATUS;
0291 MSGSIZE;

0292
0293
0294 The first time this routine is called, GET_STARTED should be false.
0295 If so, build a P2 buffer with a search key with the node id, or
0296 a wildcard search key. The search key tells NETACP which links
0297 to return.
0298

0299 IF NOT .GET_STARTED THEN

0300 BEGIN

0301 NFB = .GET_KNOWN_LINKS [DSC\$A_POINTER];

0302 IF .NML\$GL_PRS_FCGS [NML\$V_PRS_QUALIFIER] THEN

0303
0304 The NICE command was DISCONNECT KNOWN LINKS WITH
0305 NODE <node id>.
0306

0307 BEGIN

0308 SEARCH_KEY_LEN = .NODE_LEN;

0309 NFB [NFB\$S_SRCH_KEY] = .NODE_PST [PST\$S_NFBID];

0310 IF .SEARCH_KEY_LEN EQL 0 THEN

0311 Set the search key up to be the node address.
0312

0313 BEGIN

0314 SEARCH_KEY_VAL = .(.NODE_ADR) <0,16>;

0315 IF .SEARCH_KEY_VAL EQL 0 THEN

0316 NML\$GETEXEADR (SEARCH_KEY_VAL);

0317 END

0318 ELSE

0319 Set the search key up to be the node name.
0320

0321 SEARCH_KEY_VAL = .NODE_ADR;

0322 END

0323 ELSE

0324 The NICE command was a DISCONNECT KNOWN LINKS.

0325 Clear search key 1 and oper 1 in case a DISCONNECT

0326 KNOWN LINKS WITH NODE <node id> was done previously.
0327

0328 BEGIN

0329 NFB [NFB\$S_SRCH_KEY] = 0;

0330 NFB [NFB\$B_OPER] = 0;

0331 SEARCH_KEY_LEN = -1;

0332 SEARCH_KEY_VAL = 0;

0333 END;

0334 NML\$BLDP2 (.SEARCH_KEY_LEN, .SEARCH_KEY_VAL, 0, .NMLPID,
0335 P2_BUF_DSC, P2DSC);

0336 END;

0337 STATUS = NML\$NETQIO (GET_KNOWN_LINKS, P2DSC, P3, .LISDSC);

0338 IF NOT .STATUS AND (.STATUS NEQ NML\$STS_CMP) THEN

0339 BEGIN

0340 NML\$BLD_REPLY (NML\$AB_MSGBLOCK, MSGSIZE);

0341 \$SIGNAL_MSG (NML\$AB_SNDBUFFER, .MSGSIZE);
0342
0343
0344
0345
0346

```

351
352
353
354
355
356
0347 2      END;
0348 3
0349 3      .ENTRY_COUNT = .(P2DSC [DSC$A_POINTER]);
0350 3      RETURN .STATUS;
0351 2
0352 1      END;      ! of NML_GETLINKLIST

```

.PSECT \$PLITS,NOWRT,NOEXE,2

```

0000001C 00010 P.AAC: .LONG 28
00000000 00014 .ADDRESS U.3
00000068 00018 P.AAD: .LONG 104
00000000 0001C .ADDRESS P2_BUFFER

```

.PSECT \$OWNS,NOEXE,2

```

22 000A8 : NFB
      U.3: .BYTE 34
03 000A9 .BYTE 3
08 000AA .BYTE 8
00 000AB .BYTE 0
00000001 000AC .LONG 1
08010015 000B0 .LONG 134283285
03 000B4 .BYTE 3
00 000B5 .BYTE 0
0000 000B6 .WORD 0
08010012 000B8 .LONG 134283282
00000000 000BC .LONG 0
      000C0 .BLKB 4
      000C4 P2_BUFFER:
      0012C P2DSC: .BLKB 104
      .BLKB 8

```

U.4= P.AAC
P2_BUF_DSC= P.AAD

.PSECT \$CODE\$,NOWRT,2

001C 00000 NML_GETLINKLIST:

```

54 00000000 00 9E 00002 .WORD Save R2,R3,R4
53 00000000 00 9E 00009 MOVAB GET_KNOWN_LINKS+4, R4
5E 0C C2 00010 MOVAB P2DSC, R3
50 04 AC E8 00013 SUBL2 #12, SP
50 64 D0 00017 BLBS GET_STARTED, 4$
24 00000000G 00 02 E1 0001A MOVL GET_KNOWN_LINKS+4, NFB
51 14 AC 7D 00022 BBC #2, NML$GC PRS_FLGS, 2$
04 A0 0C A1 D0 00026 MOVQ NODE_PST, R1
      52 D5 0002B MOVL 12(RT), 4(NFB)
      11 12 0002D TSTL SEARCH_KEY_LEN
      6E 1C BC 3C 0002F BNEQ 1$
      1C 12 00033 MOVZWL @NODE_ADR, SEARCH_KEY_VAL
      5E DD 00035 BNEQ 3$
00000000G 00 01 FB 00037 PUSHL SP
      CALLS #1, NML$GETEXEADR

```

```

0234
0299
0301
0302
0309
0310
0315
0316
0317

```


	6E	1C	11	11	0003E	BRB	3\$	0310
			AC	D0	00040	1\$:	MOVL	0323
			0B	11	00044	BRB	3\$	0302
		04	A0	D4	00046	2\$:	CLRL	0332
		03	A0	94	00049	CLRB	3(NFB)	0333
	52		01	CE	0004C	MNEGL	#1, SEARCH_KEY_LEN	0334
			6E	D4	0004F	CLRL	SEARCH_KEY_VAL	0335
			53	DD	00051	3\$:	PUSHL	0337
		04	A4	9F	00053	PUSHAB	P2 BUF_DSC	
		10	AC	DD	00056	PUSHL	NMCPID	
			7E	D4	00059	CLRL	-(SP)	
		10	AE	DD	0005B	PUSHL	SEARCH_KEY_VAL	
			52	DD	0005E	PUSHL	SEARCH_KEY_LEN	
00000000G	00		06	FB	00060	CALLS	#6, NML\$BLDP2	
		08	AC	DD	00067	4\$:	PUSHL	0341
		08	AE	9F	0006A	PUSHAB	P3	
			53	DD	0006D	PUSHL	R3	
		FC	A4	9F	0006F	PUSHAB	GET_KNOWN_LINKS	
00000000G	00		04	FB	00072	CALLS	#4, NML\$NETQIO	
	52		50	D0	00079	MOVL	R0, STATUS	
	2F		52	E8	0007C	BLBS	STATUS, 5\$	0343
FFFFFFFF0	8F		52	D1	0007F	CMPL	STATUS, #-16	
			26	13	00086	BEQL	5\$	
		08	AE	9F	00088	PUSHAB	MSGSIZE	0345
		00000000G	00	9F	0008B	PUSHAB	NML\$AB MSGBLOCK	
00000000G	00		02	FB	00091	CALLS	#2, NML\$BLD_REPLY	
		08	AE	DD	00098	PUSHL	MSGSIZE	0346
		00000000G	00	9F	0009B	PUSHAB	NML\$AB SNDBUFFER	
		01F90000	8F	DD	000A1	PUSHL	#33095880	
00000000G	00		03	FB	000A7	CALLS	#3, LIB\$SIGNAL	
	50	04	A3	D0	000AE	5\$:	MOVL	0349
	BC		60	D0	000B2	MOVL	P2DSC+4, R0	
	50		52	D0	000B6	MOVL	(R0), @ENTRY_COUNT	0350
			04	000B9	RET		STATUS, R0	0352

; Routine Size: 186 bytes, Routine Base: \$CODE\$ + 0117

```

358 0353 1 %SBTTL 'NML$DISCONNECT Disconnect single link'
359 0354 1 GLOBAL ROUTINE NML$DISCONNECT (ENTITY, LINK) : NOVALUE =
360 0355 1
361 0356 1 !++
362 0357 1 FUNCTIONAL DESCRIPTION:
363 0358 1
364 0359 1 This routine disconnects a single link with the specified node.
365 0360 1
366 0361 1 FORMAL PARAMETERS:
367 0362 1
368 0363 1 ENTITY NML$C_LINKS - Not used.
369 0364 1 LINK Word-sized link address.
370 0365 1
371 0366 1 IMPLICIT INPUTS:
372 0367 1
373 0368 1 NML$GQ_ENTSTRDSC Contains the node ID.
374 0369 1
375 0370 1 !--
376 0371 1
377 0372 2 BEGIN
378 0373 2
379 0374 2 MAP
380 0375 2 LINK : WORD;
381 0376 2
382 P 0377 2 $NFBDS ( DISC_LINK_NFBDS, DELETE, , LLI
383 P 0378 2 ,LLN, Search key one = link number, oper1 = eql
384 P 0379 2 ,NFB$C_WILDCARD, Search key two = wildcard, oper2 = eql
385 0380 2 );
386 0381 2
387 0382 2 LOCAL
388 0383 2 STATUS,
389 0384 2 P2DSC,
390 0385 2 MSGSIZE;
391 0386 2
392 0387 2
393 0388 2 Build the P2 buffer to tell NETACP which link to disconnect. Then,
394 0389 2 perform the disconnect.
395 0390 2
396 0391 2 NML$BLDP2 ( 0, .LINK, -1, 0, NML$Q_P2BFDSC, P2DSC);
397 0392 2 IF NML$NETQIO (DISC_LINK_NFBDS, P2DSC, 0, 0) THEN
398 0393 3 BEGIN
399 0394 3 NML$AB_MSGBLOCK [MSB$L_FLAGS] = 0;
400 0395 3 NML$AB_MSGBLOCK [MSB$B_CODE] = NMA$C_STS_SUC;
401 0396 2 END;
402 0397 2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE);
403 0398 2 NML$SEND (NML$AB_SNDBUFFER, .MSGSIZE);
404 0399 2
405 0400 1 END; ! of NML$DISCONNECT
```

.PSECT SPLITS,NOWRT,NOEXE,2

00000014 00020 P.AAE: .LONG 20
00000000 00024 .ADDRESS U.5

.PSECT \$OWN\$,NOEXE,2

```

21 00134 : NFB
      00 00135 U.5:
      08 00136
      00 00137
08010012 00138
00000001 0013C
      00 00140
      00 00141
      0000 00142
00000000 00144

      .BYTE 33
      .BYTE 0
      .BYTE 8
      .BYTE 0
      .LONG 134283282
      .LONG 1
      .BYTE 0
      .BYTE 0
      .WORD 0
      .LONG 0

      U.6=
      P.AAE

.PSECT $CODE$,NOWRT,2

.ENTRY NML$DISCONNECT, Save R2
MOVAB NML$AB_MSGBLOCK, R2
SUBL2 #8, SP
PUSHL SP
PUSHAB NML$Q_P2BFDSC
CLRL -(SP)
MNEGL #1, -(SP)
MOVZWL LINK, -(SP)
CLRL -(SP)
CALLS #6, NML$BLDP2
CLRL -(SP)
PUSHAB P2DSC
PUSHAB U.6
CALLS #4, NML$NETQIO
BLBC R0, 1$
CLRL NML$AB_MSGBLOCK
MOVAB #1, NML$AB_MSGBLOCK+4
PUSHAB MSGSIZE
PUSHL R2
CALLS #2, NML$BLD_REPLY
PUSHL MSGSIZE
PUSHAB NML$AB_SNDBUFFER
CALLS #2, NML$SEND
RET

0354
0391
0392
0394
0395
0397
0398
0400
```

; Routine Size: 94 bytes, Routine Base: \$CODE\$ + 01D1

```

: 406 0401 1
: 407 0402 1 END
: 408 0403 1
: 409 0404 0 ELUDOM
```

! End of module

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	328	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	40	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	559	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[NML.OBJ]NMLLIB.L32;1	341	43	12	27	00:00.1
\$255\$DUA28:[SHRLIB]NMLIBRY.L32;1	887	4	0	47	00:00.2
\$255\$DUA28:[SHRLIB]NET.L32;1	1279	12	0	63	00:00.3
\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	6	0	581	00:03.3

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:NMLDISC/OBJ=OBJ\$:NMLDISC MSRC\$:NMLDISC/UPDATE=(ENH\$:NMLDISC)

Size: 559 code + 368 data bytes
Run Time: 00:15.5
Elapsed Time: 00:42.0
Lines/CPU Min: 1561
Lexemes/CPU-Min: 14822
Memory Used: 133 pages
Compilation Complete

AH-BT13A-SE
 VAX/VMS V4.0

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